

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-222971

(43)Date of publication of application : 09.08.2002

(51)Int.Cl.

H01L 31/04

H01M 14/00

(21)Application number : 2001-019585 (71)Applicant : SHARP CORP

(22)Date of filing : 29.01.2001 (72)Inventor : CHIBA TAKAO  
SHIMIZU MASABUMI  
KAN REIGEN  
YAMANAKA RYOSUKE

### (54) PHOTOELECTRIC CONVERTER

(57)Abstract:

PROBLEM TO BE SOLVED: To solve the problem that a light absorbing range of a dye used for spectral sensitizing is limited, in a dye sensitized solar battery, and the battery cannot effectively absorb a solar light from visible to near infrared region, and hence a high conversion efficiency like that of a silicon solar battery is not liable to be obtained.

SOLUTION: A photoelectric converter comprises a conductive support, a multilayer porous photoelectric conversion layer, a conductive layer and paired electrodes. The converter having an excellent photoelectric conversion efficiency is obtained by applying a light absorption wavelength of the different dye into the respective layers of the conversion layer, sequentially applying shorter maximum absorbing wavelength from a photodetecting surface, and thereby utilizing a solar light of a

wide region.

### LEGAL STATUS

[Date of request for examination]

24.01.2003

[Date of sending the examiner's decision of rejection] 30.05.2006

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]